

Multispectral Sensors

KLMN/SOU RS Workshop

Sensor Type	Source (Sensor Name)	Bands	Spatial Resolution	Scene Size	Cost	Link to Website
Passive Multispectral, High Spatial Resolution	Landsat 7 ETM + (multi-spectral imagery)	8	30/15 m	185 x 185 km	\$425/\$600/\$900	http://landsat.gsfc.nasa.gov/
Passive Multispectral, High Spatial Resolution	Multi Resolution Land Characteristics Consortium (MRLC) 2001 - Landsat 7 and 5 (multi-spectral imagery)	8 or 7	30/15	185 x 185 km	Free to Government Agencies	http://www.mrlc.gov/index.asp
Passive Multispectral, High Spatial Resolution	SPOT 4 (multi-spectral imagery)	4	20/10 m	60 x 60 km	\$6000 (2 scenes)	http://www.spotimage.fr/html/_167_.php
Passive Multispectral, High Spatial Resolution	Terra Aster	14	15/30/90 m	60 x 60 km	\$60 per granule (image)	http://asterweb.jpl.nasa.gov/
Passive Multispectral, Very High Spatial Resolution	IKONOS	4	4/1 m	11.3 km at NADIR		http://www.spaceimaging.com/products/ikonos/
Passive Multispectral, Very High Spatial Resolution	OrbView 3	4	4/1 m	8 x 8 km	\$60 per square km (ortho 1:24,000, pan and multi)	http://www.orbimage.com/
Passive Multispectral, Moderate Spatial Resolution	Terra Modis	36	250/500/1000 m	2,330 km	No Charge	http://modis.gsfc.nasa.gov/
Passive - Panchromatic or Color IR (CIR)	DOQs from USGS	1	1 m	Quarter-Quad or Quad	\$15 per file + base Charge (~\$60)	http://edc.usgs.gov/products/aerial/doq.html
Panchromatic or Color??	Videography		Traditional photography	Variable	1:12K CIR photography \$113,000	
Active, Moderate - High Spatial Resolution	RADARSAT - Synthetic Aperture Radar (active system that sees through clouds, dust, etc.)	C band	8-100 m	50-500 km	~\$3,000	http://www.rsi.ca/
Active, High Spatial Resolution	Lidar (active system)	N/A	Variable	Variable		http://www.lidar.com/
Passive Multispectral, High Spatial Resolution, Very High Spectral Resolution	See Hyperspectral Handout	> 50	Variable	Variable		Various
Passive Multispectral, High Spatial Resolution	Airborne Data Acquisition and Registration (ADAR) Digital Frame Camera	4	Variable		1m/4 band \$116K plus mosaicing & georeferencing	http://www.possys.com/